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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

Declaration Submitted With Initial Filing      **OR**       Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	HES 2003-IP-013105U1
First Named Inventor	Jesse M. Gagliano
COMPLETE IF KNOWN	
Application Number	
Filing Date	
Art Unit	
Examiner Name	

**I hereby declare that:**

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**Fluids Comprising Reflective Particles and Methods of Using The Same To Determine The Size of A Wellbore Annulus**

(Title of the Invention)

the specification of which

 is attached hereto**OR** was filed on (MM/DD/YYYY)  as United States Application Number or PCT InternationalApplication Number  and was amended on (MM/DD/YYYY)  (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? Yes	Certified Copy Attached? No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to:  Customer Number: 28857 OR  Correspondence address below

Name

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:

 A petition has been filed for this unsigned inventorGiven Name  
(first and middle [if any])  
Jesse M.Family Name  
or Surname  
GaglianoInventor's  
Signature

Date

3/16/04

Residence: City  
LafayetteState  
LACountry  
U.S.Citizenship  
U.S.Mailing Address  
810 South College Road, Apt #36City  
LafayetteState  
LAZIP  
70503Country  
U.S.

NAME OF SECOND INVENTOR:

 A petition has been filed for this unsigned inventorGiven Name  
(first and middle [if any])  
William A.Family Name  
or Surname  
TownsendInventor's  
Signature

Date

Residence: City  
WynnewoodState  
OKCountry  
U.S.Citizenship  
U.S.Mailing Address  
301 East Robert S. Kerr BlvdCity  
WynnewoodState  
OKZIP  
73098Country  
U.S.

Additional inventors or a legal representative are being named on the \_\_\_\_\_ supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.

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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

<b>Application Number</b>	
<b>Filing Date</b>	
<b>First Named Inventor</b>	Jesse M. Gagliano
<b>Title</b>	Fluids Comprising Reflective
<b>Art Unit</b>	
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	HES 2003-IP-013105U1

I hereby appoint:

 Practitioners associated with the Customer Number: **OR** Practitioner(s) named below:

Name	Registration Number
see attached	

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

 The address associated with the above-mentioned Customer Number: **OR** The address associated with Customer Number: **OR**

<input type="checkbox"/>	Firm or Individual Name			
Address				
Address				
City		State		Zip
Country				
Telephone		Fax		

I am the:

 Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71.  
*Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)***SIGNATURE of Applicant or Assignee of Record**

Name	Craig W. Roddy		
Signature	<i>Craig W. Roddy</i>		
Date	<i>3-19-04</i>	Telephone	580.251.3012

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

 \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

**DECLARATION****REGISTERED PRACTITIONER  
INFORMATION  
(Supplemental Sheet)**

Name	Registration Number	Name	Registration Number
Halliburton Energy Services, Inc. Practitioners		Conley Rose Practitioners	
William E. Shull	29,438	Rodney B. Carroll	39,624
William M. Imwalle	35,904	Michelle Henderson	42,654
Robert A. Kent	28,626		
Craig W. Roddy	36,256		
John W. Wustenberg	35,415		

**Notice:** This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Fees, Washington, DC 20231.

Declaration — Registered Practitioner Information (Supplemental Sheet) (PTO/SB/02C)(1-1.4)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Jesse M. Gagliano et al.

Application No./Patent No.: unknown Filed/Issue Date: concurrently herewit

Entitled: Fluids Comprising Reflective Particles and Methods of Using The Same to Determine The Size Of a Wellbore Annulus

Halliburton Energy Services, Inc., a corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest; or2.  an assignee of less than the entire right, title and interest.The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

A. [✓] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

**OR**

B. [ ] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

[✓] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document)  
must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be  
recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

3-19-2004Craig W. Roddy

Date

580.251.3012

Typed or printed name

Telephone number

Craig W. Roddy

Signature

Senior Counsel

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**ASSIGNMENT**

Whereas, I/We, Jesse M. Gagliano, of Lafayette Parish, Lafayette, Louisiana and William A. Townsend, of Garvin County, Wynnewood, Oklahoma, has invented FLUIDS COMPRISING REFLECTIVE PARTICLES AND METHODS OF USING THE SAME TO DETERMINE THE SIZE OF A WELLBORE ANNULUS for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on March 15, 2004, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

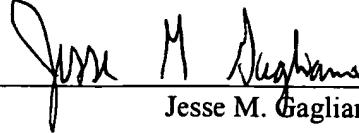
And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Officer In Charge  
Naval Legal Service Office Central  
Branch Office New Orleans  
2300 General Meyer Avenue  
New Orleans LA 70142

Executed this 16 day of March, 2004, at \_\_\_\_\_ Louisiana

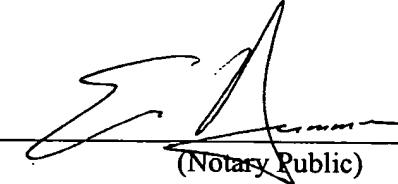
U.S.A.

  
\_\_\_\_\_  
Jesse M. Gagliano

State of Louisiana )  
                      )  
Parish of Orleans ) ss

Before me personally appeared said Jesse M. Gagliano and acknowledged the foregoing instrument to be his free act and deed this 16<sup>th</sup> day of March, 2004.

Seal

  
\_\_\_\_\_  
(Notary Public)

My Commission Expires: **10 U.S.C. SECTION 1044(a)**

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2004, at Wynnewood, Garvin County,  
Oklahoma U.S.A.

\_\_\_\_\_  
William A. Townsend

State of Oklahoma      )  
                      )  
County of Garvin      ) ss

Before me personally appeared said William A. Townsend and acknowledged the foregoing instrument to be his free act and deed this \_\_\_\_\_ day of \_\_\_\_\_, 2004.

Seal

\_\_\_\_\_  
(Notary Public)

My Commission Expires:

**ASSIGNMENT**

Whereas, I/We, Jesse M. Gagliano, of Lafayette Parish, Lafayette, Louisiana and William A. Townsend, of Garvin County, Wynnewood, Oklahoma, has invented FLUIDS COMPRISING REFLECTIVE PARTICLES AND METHODS OF USING THE SAME TO DETERMINE THE SIZE OF A WELLBORE ANNULUS for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on March 15, 2004, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this \_\_\_\_\_ day of March, 2004, at \_\_\_\_\_ Louisiana  
U.S.A.

Jesse M. Gagliano

State of Louisiana                      )  
  )  
Parish of \_\_\_\_\_ ) ss

Before me personally appeared said Jesse M. Gagliano and acknowledged the foregoing instrument to be his free act and deed this \_\_\_\_\_ day of March, 2004.

Seal

(Notary Public)

My Commission Expires:

Executed this 15<sup>th</sup> day of March, 2004, at Wynnewood, Garvin County,  
Oklahoma U.S.A.

William A. Townsend  
William A. Townsend

State of Oklahoma                      )  
  )  
County of Garvin                      ) ss

Before me personally appeared said William A. Townsend and acknowledged the foregoing instrument to be his free act and deed this 15<sup>th</sup> day of March, 2004.

Seal

(Notary Public)

My Commission Expires:

31508

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**DECLARATION FOR UTILITY OR  
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PATENT APPLICATION  
(37 CFR 1.63)**

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Art Unit	
Examiner Name	

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(Title of the Invention)

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 is attached hereto**OR** was filed on (MM/DD/YYYY)  as United States Application Number or PCT InternationalApplication Number  and was amended on (MM/DD/YYYY)  (if applicable).

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Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? Yes	Certified Copy Attached? No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: <input checked="" type="checkbox"/> Customer Number: 28857      OR <input type="checkbox"/> Correspondence address below			
Name			
Address			
City		State ZIP	
Country		Telephone Fax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) Jesse M.		Family Name or Surname Gagliano	
Inventor's Signature			Date
Residence: City Lafayette	State LA	Country U.S.	Citizenship U.S.
Mailing Address 810 South College Road, Apt #36			
City Lafayette	State LA	ZIP 70503	Country U.S.
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) William A.		Family Name or Surname Townsend	
Inventor's Signature <i>William A. Townsend</i>			Date 03/15/04
Residence: City Wynnewood	State OK	Country U.S.	Citizenship U.S.
Mailing Address 301 East Robert S. Kerr Blvd			
City Wynnewood	State OK	ZIP 73098	Country U.S.
<input type="checkbox"/> Additional inventors or a legal representative are being named on the _____ supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.			